BOCHKOVSKAYA, I.V., gornyy inzh., red.; BONDARENKO, Yu.A., gornyy ibzh., red.; VELICHKO, A.P., gornyy inzh., red.; GONTARENKO, V.A., gornyy inzh., red.; OSTASHEVSKIY, G.Ye., gornyy inzh., red.; OKUNEV, A.L., gornyy inzh., red.; KIRILENKO, R.Ye., gornyy inzh., red.; LADOZHIN-SKIY, V.N., gornyy inzh., red.; LOBAS, A.S., gornyy inzh., red.; MAKAROVA, N.I., gornyy inzh., red.; POLYANSKIY, F.S., gornyy inzh., red.; SHTUNDER, I.I., gornyy inzh., red.; ARSENT'YEV, A.I., kand. tekhn. nauk, otv. red.; PROZOROVSKIY, Ye.G., tekhn. red.

[Handbook on engineering standardization for open-pit mining]
Spravochnik po tekhnicheskomu normirovaniiu otkrytykh gornykh
rabot. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu
delu, 1961. 264 p. (MIRA 14:10)

1. Krivoy Rog. Gornorudnyy institut.
(Strip mining—Standards)

1.17 1.		
FRO	KOPYUK, A.; MIROSHNIKOV, I.; LOBAS, B.	
	We will celebrate the fortieth anniversary of the Revolution with appropriate achievements. Kukelev.prom. 23 no.7:18-19 J1 '57. (MLRA 10:9)	
	1. Voroshilovskiy kombikormovyy zavod Primorakogo kraya. (Grain milling)	
	·,	
	·	
	7	•
Control of the Contro		

LORAS, G.N.

Turbomilling device for cleaning steam boilers. Masl.-zhir.
prom. 25 no.2:36-37 '59.

1. Nevinnonysskiy maslozavod.
(Turbomachines) (Boilers--Maintenance and repair)

Middle Min. R. Ya.; Subtract N.G., 1993, 1.4.

Middle Min. And Communication of Metabolic profits in fractions. Biokhimit issue: Bakha AN SSSR, Moskva.

1. Institut biokhimit issue: Bakha AN SSSR, Moskva.

LOBAS, L.G. [Lobas, L.H.] (Kiyev)

Equations of the motion of a tore and minor vibrations of a motorcycle in steady motion along a plane. Prykl.mekh. 8 no.2:223-226 162. (MIRA 15:3)

1. Institut mekhaniki AN USSR.
(Motorcycles-Dynamics)

S/021/62/000/011/004/013 D251/D308

AUTHOR:

Lobas, L.

TITLE:

On different forms of the equations of motion of non-

holonomic systems in holonomic coordinates

PERIODICAL:

Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 11,

1962, 1436-1439

The author reviews the methods of S. A. Chaplygin and P. Appel and gives a new intermediate method of deriving the equations of motion and nonholonomic systems. The general equations of dynamics are transformed, firstly to independent variations and derivatives of the Cartesian coordinates, and hence, in the usual way, to independent variations and derivatives of generalized (Lagrangian) coordinates. The equations are expressed in terms of the kinetic energies of the 'principal points' and the 'points of constraint', and of the generalized external forces. Some indications of the occurrence of such systems are given.

Card 1/2

On different forms ...

S/021/62/000/011/004/013 D251/D308

ASSOCIATION:

Instytut mekhaniky AN URSR (Institute of Mechanics

PRESENTED:

by H. M. Savin, Academician

SUBMITTED:

February 2, 1962

Card 2/2

CIA-RDP86-00513R000930320015-8" APPROVED FOR RELEASE: 06/20/2000

LOBAS, L.G. [Lobas, I.H.] (Kiyev)					
	Reduction to quadratures. The motion of a tore on a plane. Prykl. mekh. 9 no.4:409-416 63. (MIRA 16:8)				
	l. Institut mekhaniki AN UkrSSR.				

LOBAS, L.G. [Lobas, L.H.] (Kiyev)

Stability of the motion of an airplane controlled by an autopilot along the take-off and landing strip. Prykl. mekh. 9 no.6:659-669 163. (MIRA 16:12)

1. Institut mekhaniki AN UkrSSR.

- アンニュウ FMT(m) 作用(c) 作門 (- 1 FM) ・ ()	egin on the state of the state	
CESSION NR: AP5009951	тр. 0078765, 010, 004/094670949 ———————————————————————————————————	
THOR: Belyayev, I. N.; Lobas, L. M.		
TLE: Zirconyl chloride-sodium chloride (pcta	assium chloride)-water systems	
OURCE: Zhurnal neorganicheskoy khimii, v. 10		
opic (AMS: zirconyl chloride, sodium chlorid	e, potassium chloride, solubility	
ASTRACI The article presents data from physically No. 1-H ₂ O and ZrOCl ₂ -KCl-H ₂ O. In these 25th, (c. Resistivity, viscosity and densibility are in saturated solutions. The race systems consist of two crystallization be crystallization of pure components, NaCl against to the crystallization of ZrOCl ₂ 6H ₂ O. Here found in these systems. The solubility in Figs. 1 and 2 of the Enclosure. The nature	ty were measured along the isothermal solubility isotherms for both of manches. One branch corresponds to and KCl, while the second branch re- No double salts or solid solutions sotherms of these systems are shown	

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"

L 12976-05

ACCESSION NR: AP5009951

to the nature of the changes in the total molar concentration of all salt in solution. Orig. art. has: 4 figures and 4 tables.

ASSOCIATION: none

SUBMITTED: 08Jun64

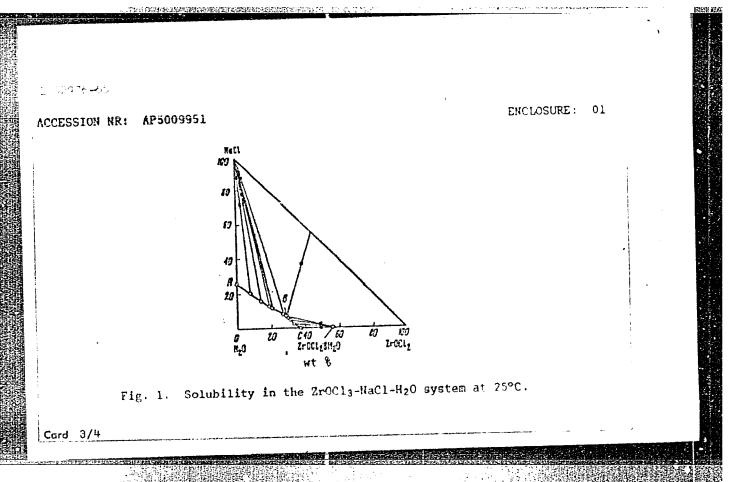
ENCL: 02

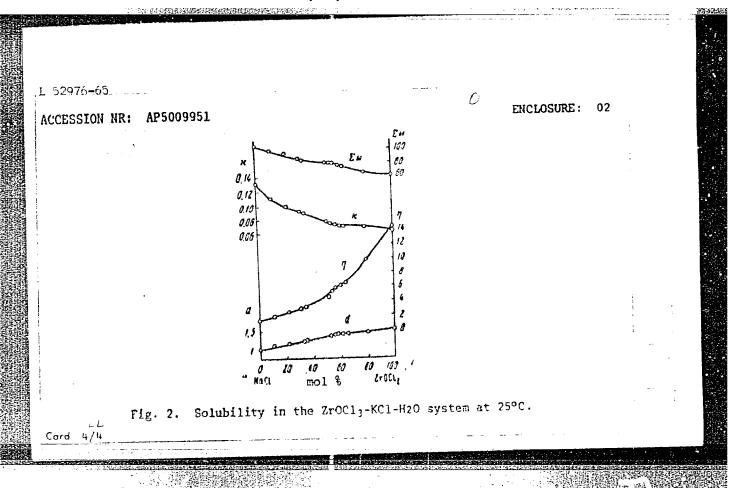
SUB CODE: IC, GC

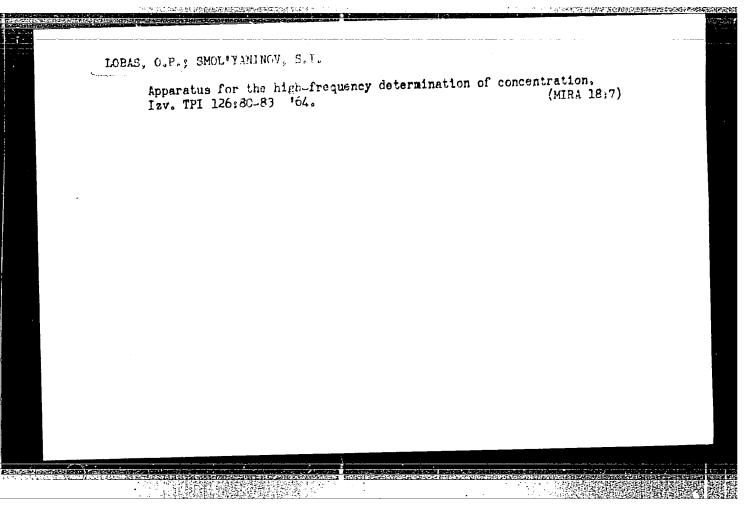
NO REF SOV: 005

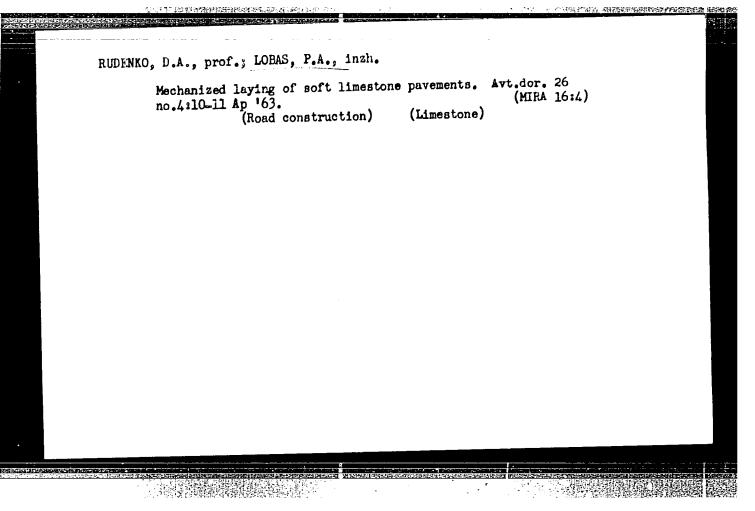
Card 2/4

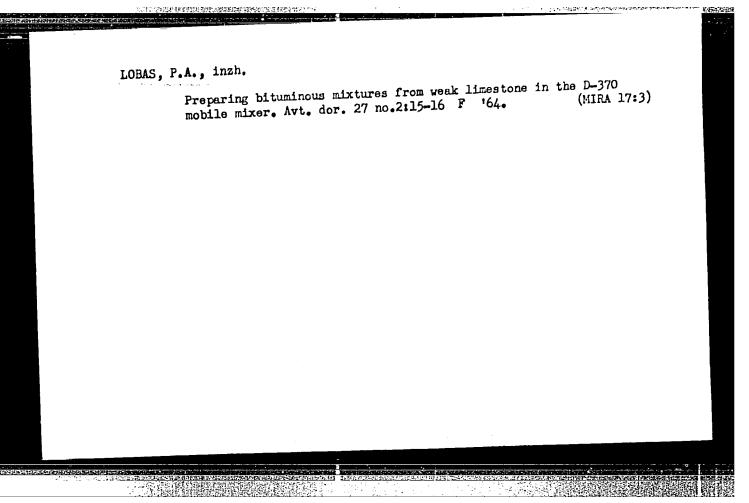
OTHER: 000











LOBASENOK, A. K.

LOBASENCK, A. K. -- "The Physicomechanical Properties of the Wood of the Black Alder in Connection with the Type of Forest." Kin Higher Education USSR. Belorussian Forestry Engineering Inst imeni S. M. Kirov. Moscow, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

USSR/Forestry - Dendrology.

K-3

Abs Jour: Ref Zhur - Biol., No 19, 1958, 86860

Author : Lobasenok, A. K.

: Belorussian Institute of Forest Technology : The Difference in Physical-mechanical Pro-Inst Title

perties of Black Alder Wood of Seed and

Stooling Origin

Orig Pub: Sb. nauchn. rabot. Belorussk. lesotekhn. in-t,

1958, vyp. 9, 123-131.

Abstract: No abstract

Card 1/1

CIA-RDP86-00513R000930320015-8" **APPROVED FOR RELEASE: 06/20/2000**

LOPATITUE, A.K.

"35 years since the extablishment of the first cathedra on forest economy in the Soviet Union, 1923-1958."

p. 47 (Gorsko Stopanstvo, Vol. 14, no. 4, 1958, Sofita, imporia)

Monthly Index of Wast Auropean Assessions (SEAT) IC, Vol. 7, No. 9, September 1958

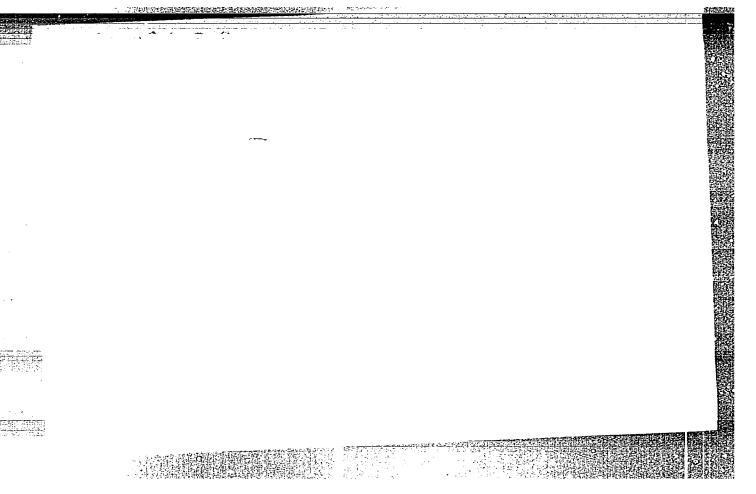
APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"

VIKHROV, Viktor Yevgrafovich; LOBASENOK, Artemiy Kuz'mich;
MINCHUKOVA, T.G., red.; MORGUNOVA, G.M., tekhn. red.

[Technical properties of wood as related to forest types]
Tekhnicheskie svoistva drevesiny v sviazi s tipami lesa.
Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovania BSSR, 1963. 71 p.
(MIRA 16:5)

(Wood)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"



Borok, B.A., Gavrilin, V.I., AUTHORS:

Lobashev, B.P., L'vovskaya, V.P.

Perfection of the Furnace TVV-2 for Use in Vacuum and Controllable TITLE:

Atmospheres (Usovershenstvovaniye pechi TVV-2 dlya raboty v va-

SOV/32-24-9-45/53

kuume i kontroliruyemykh atmosferakh)

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1158-1159 (USSR) PERIODICAL:

The furnace mentioned in the title, which is built at the "Platinopribor" factory, was rebuilt for experiments in a controllable ABSTRACT:

atmosphere and with a greater capacity. B.V. Fedin and B.P. Lobashow, as well as A.F. Androsov and Ya.I. Pikalov took part in the reconstruction. The temperature control was changed from a steplike to a continuous one. As hitherto the furnace has been operating only in vacuum no special fixing of the upper part of the furnace to the furnace body has been provided. This had to be changed as in the present case the pressure within the furnace is equal to atmospheric pressure. The increase in dimensions of the furnace was earried out in two variables. First, an increase of the radius of the tungsten heater (to 90 mm), which secured a temperature of

2300°. In the other case a temperature of 1400° could be obtained

by using a heater of molybdenum sheet with a diameter of 130 mm. Card 1/2

Perfection of the Furnace TTV .2 for Use in Vacuum and Controllable Atmospheres

SOV/32-24-9-45/53

The temperature centrol by the transformer OSC40/0,5 as practised up to new was changed by L.N. Petrov by introducing the transformer 3T-34 (or ST-24) and the autotransformer TNN-45. The life of the two heaters is given with 1,5 months. A diagram of the changed furnace TV7-2 is given, and it is mentioned that the furnace has been successfully used for 5 years. There is 1 figure.

ASSOCIATION:

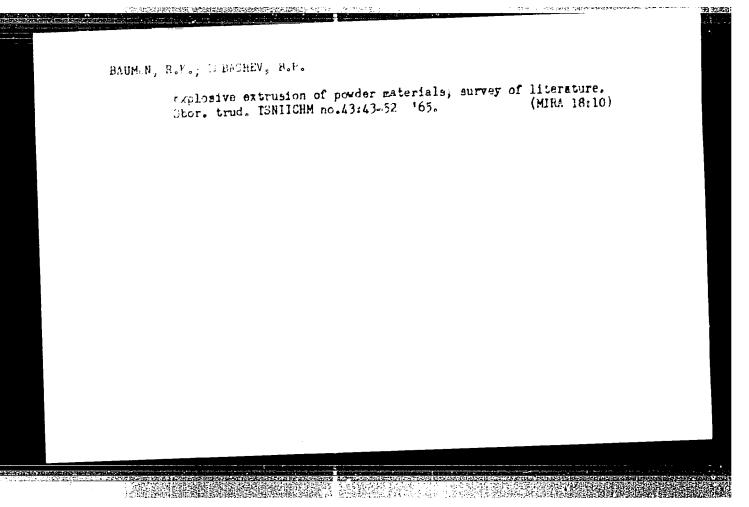
Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute & Record Metallurgy)

Card 2/2

DYMOV, V.V.; LOBASHEV, B.P.; MARKELOV, V.V.; SABININ, P.G.

Structural characteristics of the hydrostatic extrusion equipment designed by the Central Scientific Research Institute of Ferrous Metallurgy. Sbor. trud. TSNIICHM no.43:32-42 '65. (MIRA 18:10)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"



SOURCE: Ref. zh. Metallurgiya, Abs. 6G198

AUTHOR: Meyerson, G. A.; Borok, B. A.; Lobashev, B. P.

TITLE: Investigation of a process for the community pressing of metallic pow-

CITED SOURCE: Tr. 7 Vses. nauchno-tekhn. konferentsii po poroshk. metallurgii. Yerevan, 1964 106-121

TOPIC TAGS: powder metal compaction, titanium, copper, molybdenum, hydrostatic pressure, specific density, cold hardening, Kardiness

TRANSLATION: Hydrostatic pressing of titanium, copper, and molyhdenum powders over a range of pressures from 3 to 68 kg/mm² was investigated. To describe the dependence of the relative density of the briquets, we on the pressing pressure, p, the equation $p/p_{\text{max}} = v^{\text{ID}}$ was used, where p_{max} is the pressure necessary to ensure production of a briquet with a pensity of 100% and ones a onstant. This equation describes hydrostatic pressing more accurately than the

Card 1/2

L 61032-65

ACCESSION NR: AR5017420

0

conventional pressing process. In hydrostatic pressing of copper powder, p_{max} = 66, 22 kg/ mm, 1/m = 0.212, the respective values for titanium powder are 51.95 and 0.266; for standard molybdenum powder 150.00 and 0.202, for refined molybdenum powder 170.20 and 0.208. Analysis of the curve log p = log v showed to v. in contrast to conventional pressing, in the hydrostatic pressing of briquets to v = 83-85%, no appreciable cold for feating differently inequality pressing under molybdenum powder particles loss not change afterly inequality pressing under the ressure up to 20 kg/mm², while after conventional pressing the micronardness of the particles increases. The absence of chicar lening after cyclic static pressing is explained by the impossibility of directed plastic deformation. The efficiency of hydrostatic pressing is explained not only by the absence of losses due to external friction, but also by the 3- limensional displacement of the particles. The scattering of the density of large briquets (diameter 140-180 mm) produced by hydrostatic pressing is within the limits of the accuracy of the measurements.

The pressure in the pores is insignificant.

M. Bal'shin SUB CODE: MM

ENCL: 00

Card 2/2 20P

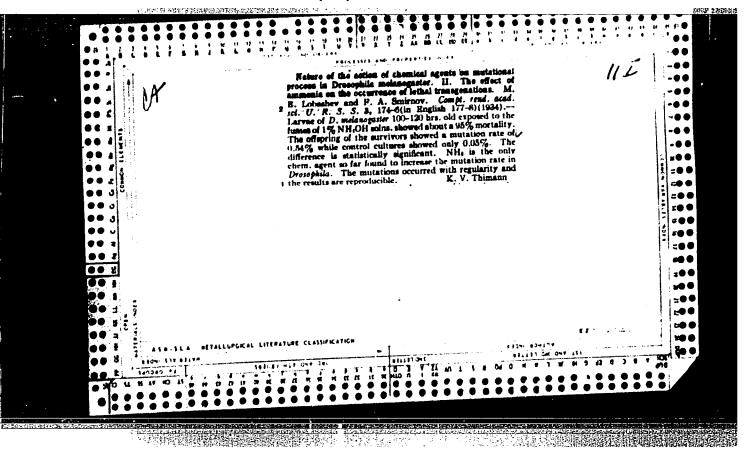
IOBASHEV. Mikhail Yefimovich; PETRLVICHEVA, O.L., red.; ZHUKOVA, fe.G., tekhn. red.

[Genetics; a course of lectures] Genetika; kurs lektsii.

[Leningrad, Izd-vo Leningr. univ. 1963. 488 p.

(MIRA 16:9)

(Genetics)





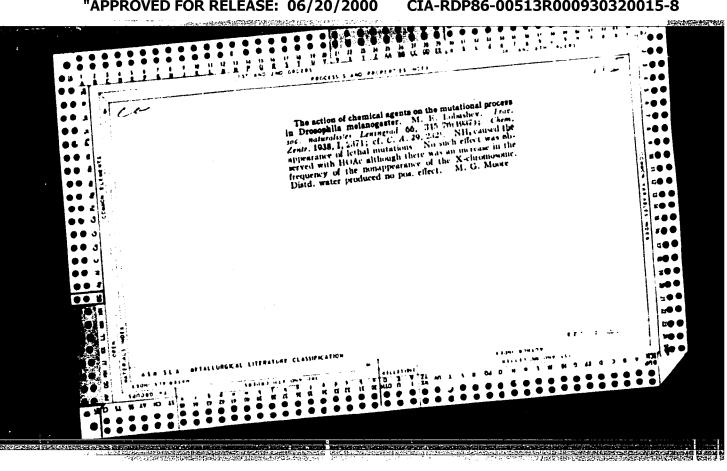
LOBASHLV, M. E.

"The influence of temperature on irradiated sea-cells of Drosophila Melanogaster."

(p. 689) Laboratory of Genetics and Experimental Zoology (Chief: Prof. A. P. Vladirirskii), Petergofsk Biological Institute. by Lobashev, M. E. and Pavlovets, M. T.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. VI, 1937, No. 3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"



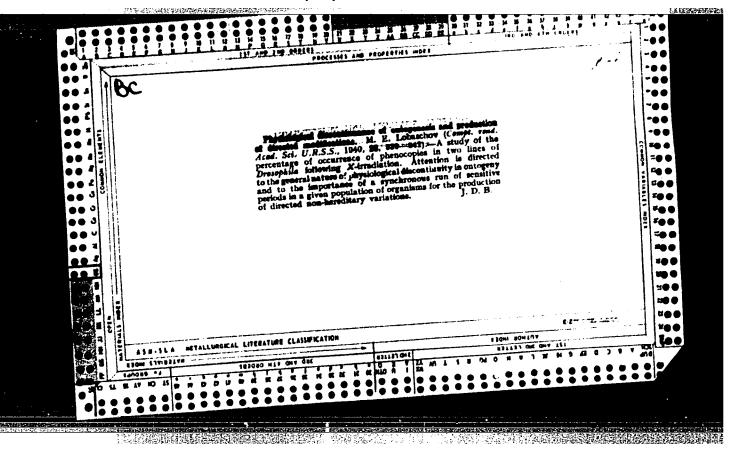
LOBASHEV, M. Ye.

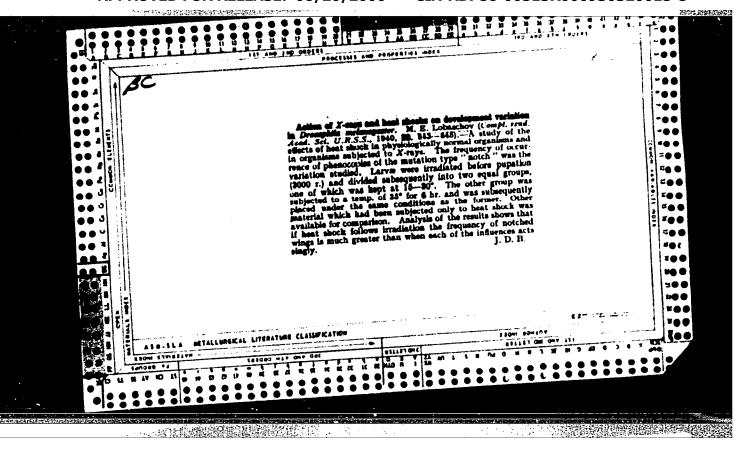
"Roentgenomorphoses in Drosophila Mel.nogaster as Dependent on Temperature of Development," Dokl. AN SSSR, 23, No.8, 1939

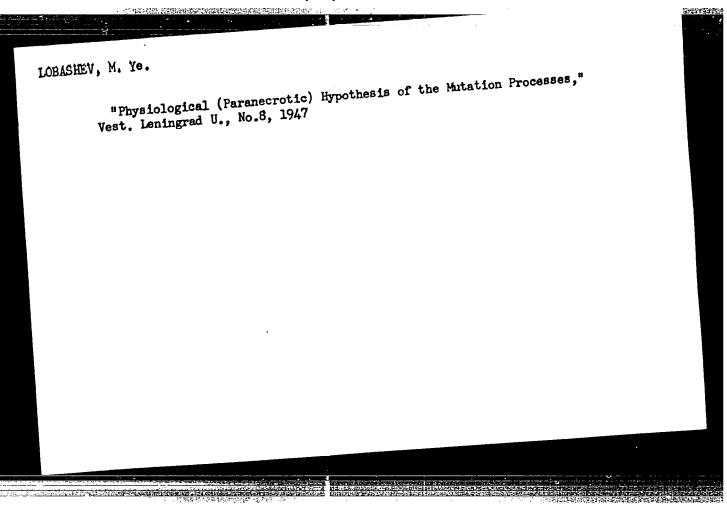
Lab. Animal Genetics & Exptl Zoology, Leningrad State U.

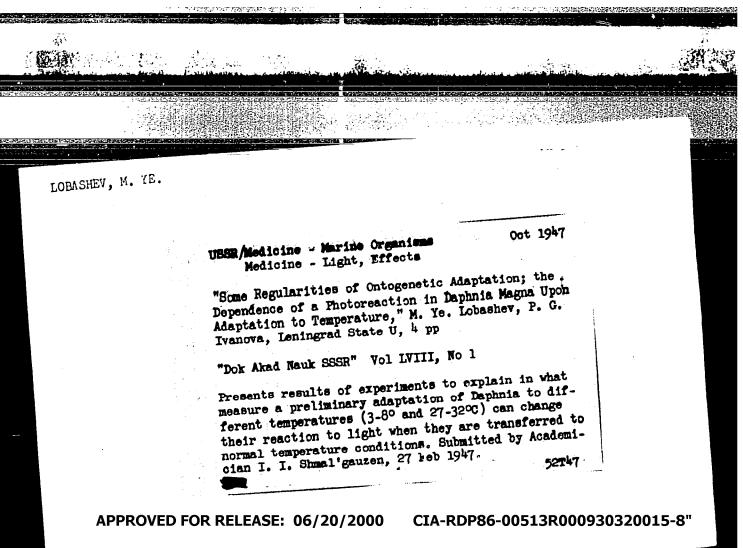
LOBASHEV, M. Ye.

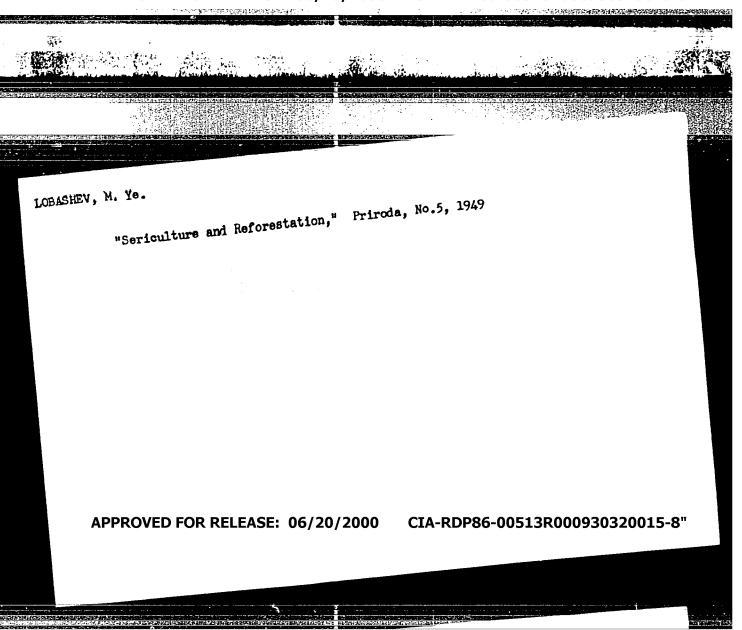
"Germinal Selection and Dynamics of Matational Variation," Dokl. AN SSSR,
27, No.9, 1940

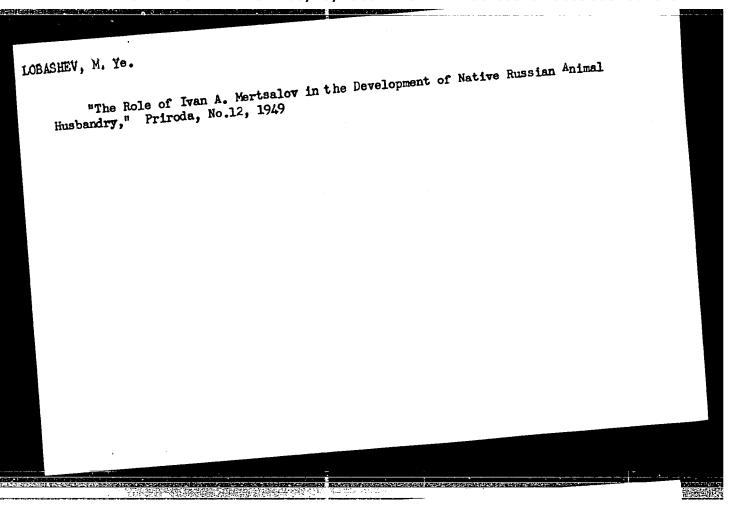






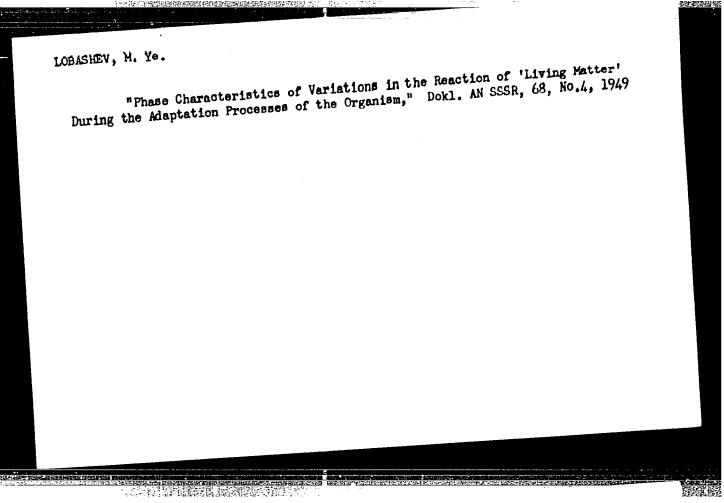






"Study of "everse Substantial Changes in Cells of Drosophila by the Vital Staining Method," Dokl AN SSSR, 59, No.3, 1949

Inst. Evolutionary Physiol. & Pathology Higher Nermous Activity im. Pavlov, Koltushi Physiol. & Pathology Higher Nermous Activity im. Pavlov, Koltushi Revolutionary Physiol.



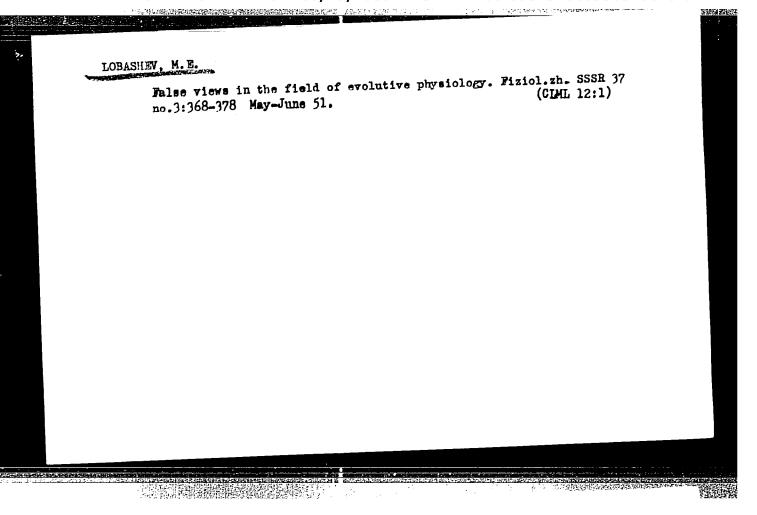
"APPROVED FOR RELEASE: 06/20/2000 CIA-F

CIA-RDP86-00513R000930320015-8

Month Principle of Tem or my Accordations (Constituted Lectures) in the Constitute of Temperatures. (p. 13) by Lebester, H. 3.

Theoretical of Contemporary Biology, 1951, Vol. XXXI, No. 1, J. Mary-Polandry

CO: Furnished of Contemporary Biology, 1951, Vol. XXXI, No. 1, J. Mary-Polandry



LOBASHEV, M. Ye.; NIKITINA, I. A.

。 全定是是否则是否如此的特别的是更新的理解的解释的是一个。

Temporary conditioned reflexes in silkworms. Doklady Akad.

Temporary conditioned reflexes in silkworms. Doklady Akad.

(CIML 21:1)

nauk SSSR 79 no.6:1053-1056 21 Aug 1951.

1. Institute of Physiology imeni I. P. Pavlov, Academy of Sciences USSR. 2. Presented 21 May 1951 by Academician K. M. Bykov.

· (1) · (1) · (2) · (3) · (3) · (4)

LORISHEV, M.Ye., saveduyushchiy; VOSKRISIENSKAYA, A.K.; LOPATINA, N.G.

Differentiation of conditioned stimuli according to color and smell by bees.
Trudy Inst.fiziol. 1:141-156 '52. (MLRA 6:8)

1. Laboratoriya fisiologii nisshikh zhivotnykh.
(Golor sense) (Bees) (Smell)

ICBASHEV, N. E.

"Cn the Behaviour of the Oak Silkworm (Intheraea Pernyi) in the Process of Spinning a Cocoon." (p. 406) by Lobashev, N. E. Latoratory of the Physiclogy of the Lower Animals, I. P. Pavlov Institute of Misiclogy of the Akad. Hauk, U.S.S.R.

So: Journal of General Biology (Zhurnal Obshchey Biologii) Vol. XIII, No. 6, Nov.-Dec., 1952.

LOBASHEV, M.Ye.; SAVVATEYEV, V.B.

Conditioned reflex changes of sorption properties of protoplasm of the epithelial cell of the intestine. Fixiol. zh. SSSR 38 no.4:444-451 July-Aug 1952. (CIML 23:2)

1. Institute of Physiology of Lower Animals, Institute of Physiology imeni I. P. Pavlov, Academy of Sciences USSR, Leningrad.

LOBASHEV, M, YE
LOBASHEV, M.Ye.; SAVVATEYEV, V.B.

Changing unconditioned reflexes in ontogenesis in chickens by the conditioned reflex method. First report: Changes of daily stereotype and the time of egg laying. Trudy Inst.fiziol. no.2: 503-522 153. (MLRA 7:5)

1. Laboratoriya fiziologii nizshikh zhivotnykh (zaveduyushchiy - M.Ye.Lobashev). (Reflexes) (Birds--Physiology)

A STATE OF THE PROPERTY OF THE

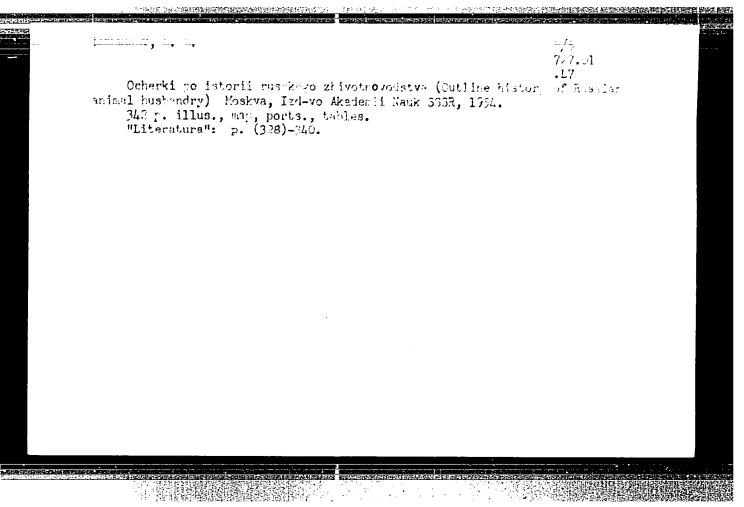
LOBASHEV, M. Y E.
LOBASHEV, M.Ye.; SAVVATEYEV, V.B.

Changes in unconditioned reflexes in ontogenesis in chickens by the conditioned reflex method. Second report: Changes in sexual fertility. Trudy Inst.fisiol. no.2:523-541 '53. (MLRA 7:5)

1. Laboratoriya fiziologii nizshikh shivotnykh (zaveduyushchiy - M.Ye. Lobashev). (Birds--Physiology) (Reflexes)

LOBASHEV, M.; KOSHTOYANTS, Kh.S.

Letters to the editor. Zhur.vys.nerv.deiat. 3 no.2:316-320 Mr-Ap '53.
(MLRA 6:6)
(Hervous system) (Conditioned response) (Fletsityy, D.F.)
(Volokhov, A.A.) (Tikhomirov, N.P.)



LOBASHEV, M.Ye.

Changes in unconditioned reflexes in ontogenesis. Izv.AN SSSR Ser.biol. r..2:74-90 Mr-Ap 154. (MLRA 7:2)

1. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR Laboratoriya fiziologii nizshikh zhivotnykh. (Reflexes)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"

LOBASHEV, M.Ye. Studying animal adaptation by the conditioned reflex method. Zhur. ob.biol. 16 no.2:95-105 Mr-Ap '55. (MLRA 8:5) 1. Institut fiziologii im. I.P.Pavlova AN SSSR. (REFIEXT, CONDITIONED, in agricultural animals)

Q

USSR/Farm Animals. Honeybee.

Abs Jour: Ref Zhur-Diol., No 17, 1958, 78835.

Lobashev, M. Ye. **Nuthor**

: Study of Instincts in Honey Bees by the Method of Inst

Title Conditioned Reflexes.

Orig Pub: Pchelovodstvo, 1958, No 1, 21-25.

Abstract: The instinct of insects is examined as a consecutive chain of separate reflex acts coordinately connected between themselves, which are conditioned by the course of the evolution of the species and by tests of the individual life in the form of conditioned reflexes. Experimentally with histological control, it was established that closure of temporary connections is accom-

: 1/2 Card

64

CIA-RDP86-00513R000930320015-8" **APPROVED FOR RELEASE: 06/20/2000**

USSR/Farm Animals. Honeybee.

Abs Jour: Ref Zhur-Diol., No 17, 1958, 78835.

Q

plished in the fungoid bodies of the brain ganglia. The honeybee is characterized by all of the basic properties of higher nervous activity, established by the method of conditioned reflexes, of vertebrate animals. The dance of the bee appears at the moment of formation of the conditioned reflex to the smell of the flowers visited by the dancing bee.

Card : 2/2

2013.9548V, m. 42

AUTHOR:

Lobashev, M.Ye., Professor (Leningrad)

25-58-4-10/41

THE PROPERTY OF THE PROPERTY O

TITLE:

Reflexes of Insects (Refleksy u nasekomykh)

PERIODICAL:

Nauka i Zhizn', 1958, Nr 4, pp 21-22 (USSR)

ABSTRACT:

Physiological investigations of insect behavior, carried out at the laboratory for the physiology of lower animals at the Institut fiziologii imeni I.P. Pavlova Akademii nauk SSSR (Institute of Physiology imeni I.P. Pavlov of the USSR Academy of Sciences), confirmed that conditional reflexes also exist in lower animals. This theory was proved by experiments with silkworms and bees. The method of conditional reflexes, primarily applied by Pavlov, revealed that all forms of inner brake-action occur in insect organisms. Moreover, it is possible to regulate excitation and brake processes, and to reproduce acts of behavior, previously considered as merely instinctive. There are 5 sketches.

AVAILABLE:

Library of Congress

Card 1/1

1. Ecology 2. Bionomics

LOBASHEV, Mikhail Yefimovich; SAVVATETEV, Vladimir Borisovich; AYRAPET'YANTS, E.Sh., otv.red.; VASIL'YEVA, Z.A., red.izd-va; ARONS, R.A., tekhn.red.

[Physiology of diurnal rhythms in snimals] Fiziologiia sutochnogo ritma zhivotnykh. Moskva, Izd-vo Akad.nauk SSSR, 1959.

(PHOTOPERIODISM)

(PHOTOPERIODISM)

LOBASHEV, M.Ye.

Biology of the conditioned response. Trudy Inst.fiziol. 8:133-141 59. (MIRA 13:5)

1. Laboratoriya fiziologii nizshikh zhivotnykh (zaveduyushchiy - M.E. Lobashev) Instituta fiziologii im. I.P. Pavlova AN SSSR. (CONDITIONED RESPONSE)

17(1) 507/20-126-6-66/67

AUTHORS: Lobashev, M. Ye., Savvateyev, V. B., Marchin, V. G.

TITLE: Adaptation to an Unconditioned Stimulus in the Process of the

Formation of a Conditioned Reflex (Adaptatsiya k bezuslovnonu razdrazhitelyu v protsesse obrazovaniya uslovnogo refleksa)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1385-1388

(USSR)

ABSTRACT: Usually the adaptation process of the animal organism in the

ontogenesis is regarded as the result of two systems of reflex activity: conditioned and unconditioned. However, the interrelation of these two systems is a complex combination of the adaptation processes taking place, according to their mechanism, synchronously or asynchronously. The reflex adaptation changes are conditioned by a system of combinations which is closed at the central end of the analyzer. At the same time an adaptation to each of the individual stimuli, both conditioned and unconditioned, in the receptors of the peripheric part of the analyzer is possible. Here a coupled adaptation to two or more simultane-

ous stimuli can come about. By including the conditioned-reflex

Card 1/4 activity into the adaptation process of the organism in the

Adaptation to an Unconditioned Stimulus in the Process of the Formation of a Conditioned Reflex

SOV/20-126-6-66/67

phylogenetic series the influence of external agents becomes a coupled influence, according to the principle of conditioned reflexes. For these reasons it is necessary to consider the differences in the mechanisms of adaptation to unconditioned stimuli and adaptation coming about according to the principle of conditioned reflexes. When a defence reflex is worked out with the support of an electric current, an adaptation to the latter occurs after a number of applications. As the number of combinations increases, the stimulus threshold is changed, and the intensity of the support must be increased. This increase is necessitated by the fact that the level of excitation in the unconditioned center has to be increased for the purpose of developing and fastening the conditioned reflex. (Refs 1-3). In the experiments carried out by the authors with fish a conditioned reflex - cessation of respiration caused by a light stimulus supported by increased water temperature - was developed. As the number of combinations was increased, the reaction of the adaptation of the movement of the gill cover to both conditioned and unconditioned reflexes was included in the study: with each combination the temperature threshold was recorded at which respiration ceased. With the increasing

Card 2/4

Adaptation to an Unconditioned Stimulus in the Process of the Formation of a Conditioned Reflex

SOV/20-126-6-66/67

number of combinations these data rendered it possible to study the duration and character of the signal effect of the light and to observe the adaptation dynamics of the fish to an unconditioned stimulus. The raising of the temperature threshold at which respiration ceased served as an index of the increase in resistance to temperature due to adaptation. It was found in the case of the tench (Tinca tinca L.) that the orientation reaction appears in the form of a slowing of the gill cover movement or a complete dessation of respiration if lit with a lamp of 40 watts and up. The rate of extinction of the orientation reflex proved to be a function of the intensity of the light stimulus. This is in complete agreement with the "Law of the Intensity" found for the rate of formation of conditioned reflexes. Experiments carried out in a number of variants with ten fish yielded identical results. At the beginning of the experiment, when the conditioned reflex to lamp light is developed, respiration stops as soon as the water temperature has reached 22-24°. With an increase in the number of combinations an adaptation to temperature comes about and the threshold at which respiration stops is raised to $31-32^{\circ}$,

Card 3/4

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Adaptation to an Unconditioned Stimulus in the Process of the Formation of a Conditioned Reillex

SOV/20-126-6-66/67

in some animals even 34°. It therefore becomes necessary, in developing the conditioned reflex to a light stimulus with the support of temperature, to increase the temperature for the following combinations, as soon as the temporary combination has become fixed, i.e., as soon as the light stimulus combined with a high temperature has attained the significance of a signal (after 19-20 combinations) the cessation of respiration was adapted to the signal agreed upon for all different water temperatures (Fig 1). 2 adaptation mechanisms can be clearly distinguished. They do not preclude one another, but are complementary. They are called "unconditioned - reflex" and "conditioned - reflex adaptation" by the author. There are 1 figure

and 3 Soviet references.

ASSOCIATION:

ZE DADOS

Institut fiziologii im. I. P. Favlova Akademii nauk SSSR (Institute of Physiology imeni I. P. Pavlov, Academy of Sciences, USSR)

PRESENTED:

November 10, 1958, by K. M. Bykov, Academician

SUBMITTED:

October 28, 1958

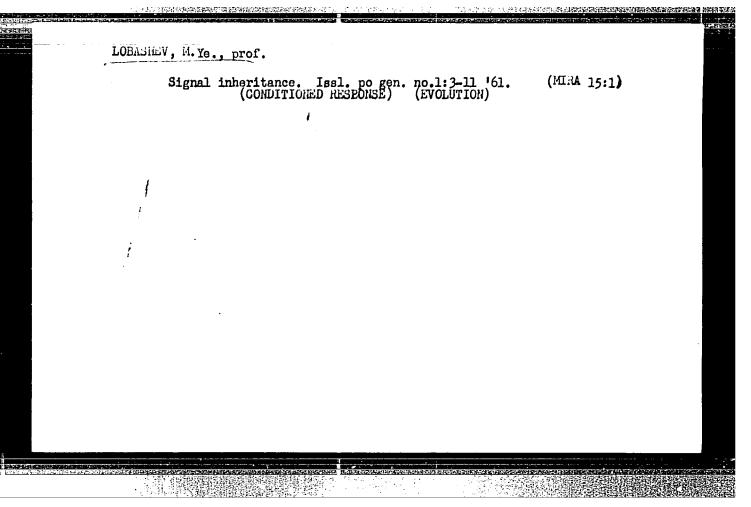
Card 4/4

LOBASHEV, M.Ye.; SAVVATEYEV, V.B. [deceased]; KASIMOV, R.Yu.;

Studying certain aspects of animal hypnosis. Fiziol. zhur. SSSR 46 no. 9:1083-1089 S '60. (MIRA 13:10)

1. From the Laboratory of Inferior Animals Physiology, Pavlov Institute of Physiology, Leningrad.
(HYPNOTISM)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"



Inheritance of some characteristics of higher nervous activity in interspeciefic hybridization. Izv. AN SSSR. Ser. biol. 27 no.1:56-69 Ja-F '62. (NIRA 15:3)

1. Physiological Institute, Academy of Sciences of the U.S.S.R., Leningrad. (HYERIDIZATION)

(NERVOUS SYSTEM--FISHES)

LOBASHEV, M.Ye.; LOPATINA, N.G.; NIKITINA, I.A.; CHESNOKOVA, Ye.G. (Leningrad)

Physiological mechanism of the orientation of honeybes in space.

Usp. sovr. biol. 53 no.2:152-168 Mr-Ap *62.

(BEES)

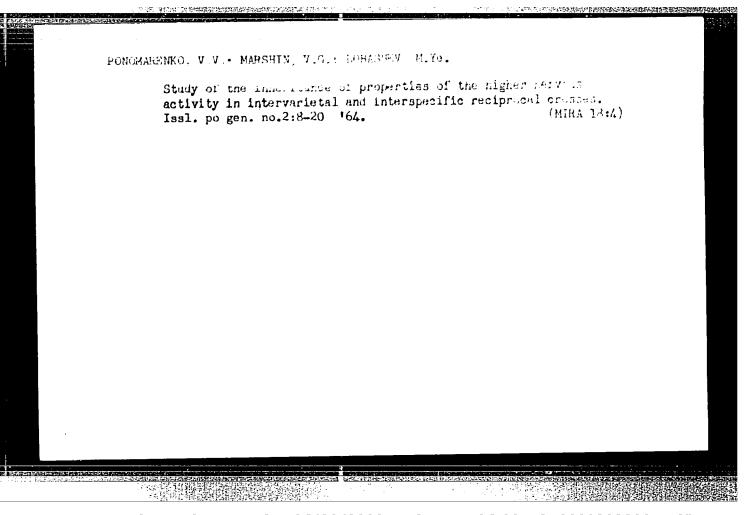
(ORIENTATION)

(MIRA 15:5)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"

IORASEV, M.E. [Lobashev, M. Ye.]; KASIMOV, R.I.; MARSIN, V.G. [Marshin, V.G.]

Inheritance of some features of the higher nervous activity in the interspecific hybridization. Analele biol 16 no.4:30-45 J1-Ag '62.



LOBASHEV, M.Ye.; LOPATINA, N.G.; NIKITIMA, I.A.; CHESNOKOVA, Ye.G.

Simultaneous action of acoustic and tactile stimuli on the locomotive and flying activity of the honeybee Apis melliferna (Hymenoptera, Apidae). Ent. oboz. 44 no.3:557-562 165. (MIRA 18:9)

1. Institut fiziologii imeni I.P.Pavlova AN SSSR, Koltushi Leningradskoy oblasti.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"

LOBASHEV, N. Ye.: KOREMEVICH, L. A.

Mbr., Biological Institute, Leningrad State University (-1947-)

"Investigation of Substantial Adaption by Method of Vital Dyes, " Lok. AE, 57, No. 9, 1947

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77001 sov/56-37-6-41/55

AUTHORS:

Lobashev, V. M., Nazarenko, V. A. and Rusinov, L. I.

TITLE:

Letter to the Editor. The Polarizational β - γ -Correlation in the β -Decay of Co 00

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki,

1959, Vol 37, Nr 6, pp 1810-1811 (USSR)

ABSTRACT:

As was predicted by A. Z. Dolginov (cf., Zhur. Eksp. i Teoret. Fiz., 35, 178, 1958) and H. A. Tolhock (cf., Rev. Mod. Phys., 28, 277, 1956), a transverse polarization of A-electrons escaping in a plane perpendicular to the nuclear anim takes place during the A-decay. to the nuclear spin, takes place during the B-decay of polarized nuclei. The authors have investigated the correlation between the transversely polarized electrons and circularly polarized γ -quanta formed in the β -decay of CoO(\sim 100 μ Cu). A case was studied where the electron momentum β lies in the plane perpendicular to the momentum R of γ -quantum, which possesses circular polarization σ . The spin of electron s was anti-parallel to R. Measurements

card 1/3

Letter to the Editor. The Polarizational of $c_060 \gamma$ -Correlation in the β -Decay

77001 SOV/56-37-6-41/55

were made of the degree of the circular polarization of γ -quanta, which coincide with β -electrons. The circular polarization of γ -quanta was determined from the compton scattering forward on magnetized iron. The substitution of the results in the equation

 $\Delta = 2 (I_1 - I_2) / (I_1 + I_2), \quad I_{1,2} = R_c / R_0 R_1;$

gave $\Delta = (0.50 + 0.18)\%$. The calculation with the aid of the equation

 $W(\sigma) = 1 + A\sigma$. (1)

Card 2/3

yielded A = 0.32 + 12. The theoretical value for A is 0.24 (cf., A. \overline{Z} . Dolginov, loc. cit.). This work was performed under the guidance of A. Z. Dolginov;

Letter to the Editor. The Polarizational of $_{\text{co}}^{60}$ -Correlation in the $_{\text{co}}^{60}$ -Decay

77001 SOV/56-37-6-41/55

O. V. Saltykovskiy, V. S. Andryukevich and A. V. Kurakin participated in the experimental part of this study. There is a schematic diagram of the setup; and 6 references, 1 Soviet, 1 German, 4 U.S. The U.S. references are: H. A. Tolhock, Rev. Mod. Phys., 28, 277 (1956); H. Schopper, Phil. Mag., 2, 710 (1957); F. Bohem, A. H. Wapstra, Phys. Rev., 109, 456 (1958); N. Sherman, Phys. Rev., 103, 1601 (1956).

ASSOCIATION:

Leningrad Phys.-Tech. Inst. Acad. Sciences USSR, (Leningradskiy fiziko-tekhnicheskiy institut, Akademii nauk SSSR)

SUBMITTED:

August 14, 1959

Card 3/3

89197

S/056/61/040/001/002/037 B102/B204

24.6810

AUTHORS:

Lobash V. V. M., Nazarenko, V. A., and Rusinov, L. I. (De-

ceased)

TITLE:

 $\beta\gamma$ -Polarization correlation in the β -decay of Sc^{46}

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 40,

no. 1, 1961, 10-12

TEXT: Within the framework of experiments made for the purpose of verifying the T-invariance of the β -decay, the $\beta\gamma$ -correlation in the decay of polarized neutrons and the $\beta\gamma$ -correlations in the decay of orientated nuclei has already been measured, and it was found that (with an accuracy of 15-30%) no imaginary part occurs in the β -interaction Hamiltonian. The amount of this correlation in these experiments depends on the imaginary part of the interference VA terms; as, however, an S- and T-admixture could hitherto not be excluded, this should also be taken into account. This was the purpose of the present paper. By trying to estimac the amount of Im(VT, SA), the correlation between the transverse polarization of the electron and the circular polarization of the gamma quantum were experimentally determined.

Card 1/5

DATA!

S/056/61/040/001/002/037 B102/B204

 $\beta\gamma$ -Polarization correlation ...

The experimental arrangement is shown in Fig. 2. A theoretical study of the correlation coefficient K for allowed transitions (according to A. Z. Dolginov) shows that K depends on the degree of interference of the Gamow-Teller and the Fermi matrix elements. Thus, Sc^{46} was chosen as a source owing to its high degree of interference of the matrix elements. The electrons coming from the source (S) are collimated on a bismuth film (0.5 mg/cm²), scattered through ~135°, and recorded by means of a scintillator, which is connected with the photomultiplier via a light pipe. Owing to the azimuthal asymmetry, which is connected with Mott scattering, the beam of the scattered electrons is polarized in the direction $[\vec{p}_1\vec{p}_2]$, $(\vec{p}_1$ is

the momentum of the electron before, and \vec{p}_2 that after scattering). In order to increase counting intensity, circular geometry was used. The circular polarization of the γ -quanta was measured by means of the method of the Compton forward scattering on magnetized iron. The outputs of the photomultiplier of the β - and γ -detectors were connected in fast-slow coincidence with $2\tau = 1.8 \cdot 10^{-8}$ sec. From the measured results $\Delta = 2(I_1 - I_2)/(I_1 + I_2)$,

 $I_{1,2} = R_{coinc}/R_{\beta}R_{\gamma}$ was calculated, and thus $K = \Delta/P_{\gamma}P_{\beta}$ was determined, where

Card 2/5

- 99197

βy-Polarization correlation ...

S/056/61/040/001/002/037 B102/B204

 P_{γ} , and P_{β} are the efficiency of the γ and β -polarimeters. One obtained: $\Delta = (+0.15 \pm 0.11)\%$, and herefrom the correlation coefficient was found to be $K = 0.08 \pm 0.06$. The experiments were repeated by means of a thick scatterer ($\sim 5 \text{mg/cm}^2$), from which it followed that the experimental arrangement had no asymmetry. Thus, it was found that, as

$$K = + 0.04$$
 with $Im(VT,AS) = 0$
 $K = \begin{cases} + 0.23 \\ - 0.15 \end{cases}$ with a maximum $Im(VT,AS)$

is Im(VT,AS) = 0 with a statistical accuracy of ~30%. For the purpose of checking the experimental method, also $\beta\gamma$ correlation experiments were carried out on Sc^{46} and Co^{60} , and results were obtained, which showed good agreement with those obtained by other authors. The authors finally thank A. Z. Dolginov for discussions and for his interest, O. M. Saltykovskiy, V. V. Andryukevich, and A. V. Kurakin for the experimental assistance. There are 2 figures and 5 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

Card 3/5

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S/056/61/040/001/002/037 B102/B204

βy-Polarization correlation ...

ASSOCIATION:

Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk

SSSR (Leningrad Institute of Physics and Technology of the

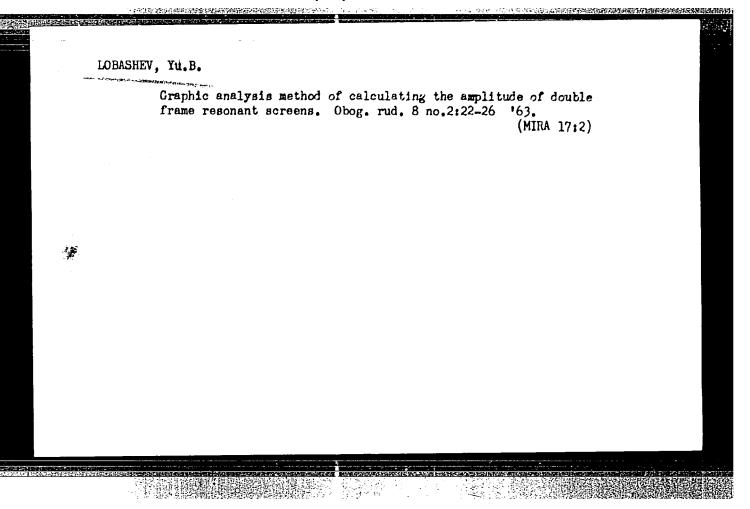
Academy of Sciences USSR)

SUBMITTED:

June 22, 1960

Legend to Fig. 2: S - source; 1) electron scatterer, 2) plastics scintillator, 3) light pipes, 4) vacuum chamber, 5) outlet window for γ -quanta, 6) magnet of the γ -polarimeter, 7) photomultipliers.

Card 4/5



KAMINIR, Lev Borisovich; LOBASHKOV, S.I., red.; SHIROKOVA, M.M., tekhn. red.

[Radio electronics in biology] Radioelektronika v biologii.
Moskva, Gosenergoizdat, 1962. 55 p. (Massovaia radiobiblioteka, no.439)

(Electronics in biology)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"

KOTOVSKAYA, A.R.; LOBASHKOV, S.I.; SIMPURA, S.F.; SUVOROV, P.M.;
KHLEENIKOV, G.F.

Effect of prolonged transverse acceleration on the human
organism. Probl.kosm.biol. 2:238-246 '62. (MIRA 16:4)
(ACCELERATION—PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"

8/056/62/043/005/003/058 B163/B186

AUTHORS: Lobashov, V. M., Nazarenko, V. A., Sayenko, L. F.

TITLE: Determination of the spin of Eu 152m

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1579-1581

TEXT: The β-f correlation between the momentum of the β-electron and the circular polarization of the 1.327 MeV quantum in the allowed branch of the Eu 152m β-decay with a β-electron end-point energy of 560 kev is measured. This β-decay, whose frequency of occurrence among all decays of Eu 152m is 1.2%, leads to the 1.315 MeV excited 1 state of Gd 152 . The measurements were made with an apparatus described earlier (V. M. measurements were made with an apparatus described earlier (V. M. Lobashov et al., ZhETF 41, 1433, 1961), then used for investigating the similar Pr 144 decay by an analogous experimental procedure. The Eu 152m source was made of about $100\mu g/cm^2$ europium oxide on an Al backing foil, irradiated in the FTI AN SSSR reactor. The value of $\Lambda = 2(I_1 - I_2)/(I_1 + I_2)$ Card 1/3

Determination of the spin of $\mathrm{Eu}^{152\mathrm{m}}$

S/056/62/043/005/003/058 B163/B186

is found to be $+(1.6 \stackrel{t}{-} 0.4)\%$ where $I_{1,2} = R_{coine}/R_{\mu}\theta_{\beta}$; R_{coine} and R_{μ} denote the counting rates for coincidences and single pulses of the channel respectively, and θ_{β} is a correction factor for the influence of the magnetic field on the β -channel (0.03%). The subscripts 1 and 2 respectively correspond to different magnetization directions in the polarimeter. From this, the correlation coefficient A_{1} is calculated taking into account the background of casual coincidences; also the geometry and the efficiency of the polarimeter; $A_{1} = +(0.40 \stackrel{t}{=} 0.10)$. For the transitions 0^{-} , 1^{-} , 0^{+} a correlation coefficient of +1.00 is to be expected, but for the transitions 1^{-} , 1^{-} , 0^{+} a correlation coefficient of the observed magnitude is possible. It is concluded that spin and parity of the Eu 152m isomeric state are 1 instead of the previously accepted value 0^{-} . The reliability of the applied experimental procedure is confirmed by the fact that β correlation measurements in the β decays of Co^{60} and Au^{198} (V. M. Lobashov et al., ZhETF 42, 358, 1962) Card 2/3

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Determination of the spin of Eu^{152m}

S/056/62/043/005/003/058 B163/B186

have given results in good agreement with those of other authors. It is important to know the spin and parity of the Eu¹52m isomeric state in connection with the experiment of Goldhaber et al. (Phys. Rev. 109, 1015, 1958) whereby the polarization of the neutrino from the K decay was measured. Goldhaber's main result i. e. his conclusion on the chirality of the neutrino, is not affected, but the expected greater accuracy from further such experiments with Eu^{152m} to determine the polarization of the neutrino is diminished. There is 1 figure.

ASSOCIATION:

Fiziko-tekhnicheskiy institut im. A. F. loffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. loffe of the Academy of Sciences USSR)

SUBMITTED:

April 28, 1962

Card 3/3

AUTHOR:

SOV/110-58-10-19/24 Synorov, F.V. (Cand.Phys.Math.Sci.) & Lohashevskiy, L.V. (Engineer)

TITLES

On 'The sliding contact' in the Great Soviet Encyclopaedia (0 'Skol'zyashchem kontakte' v Bol'shoy Sovetskoy Entsiklopedii)

PERIODICALE

Vestmik Elektropromyshlennosti, 1958, No.10. pp. 72-74 (USSR)

ABSTRACT:

In the article 'The sliding contact' in the Great Soviet Encyclopaedia it is stated that the volt-ampere characteristics of contact are linear and that there is no polar effect in the copper/ brush contact when stationary. These statements are not confirmed by experiments described in this article. Tests show, firstly, that a copper/copper contact is linear at current densities up to 100 A/cm2 and does not depend on the direction of flow of current. Then the contact characteristics of a brush/brush contact are given, in Fig. 2. With one type of brush the contact resistance is practically independent of current density and direction, but in another linearity is disturbed, apparently by local heating effects. Next the resistance of a stationary copper/brush contact is shown by the graphs in Fig. 3. to depend on the magnitude and direction of the current. This also applies to sliding contacts in electrical machines. Tests were made of the transient voltage-drop at low current-densities; the curves in Fig. 4. indicate that polar differences also occur at very low current-densities where the

Card 1/2

On 'The sliding contact' in the Great Soviet Encyclopaedia SOV/110-58-10-19/24

influence of the current on the properties of the contact is excluded. Heating of the contact increases the thickness of exide layer on the copper surface and hence increases the contact resistance. The contact resistance between a brush and gold does not alter with temperature, because no exide film is formed. There are 4 figures and 1 literature reference (Soviet)

1. Sliding contacts--Electrical properties 2. Sliding contacts--Test results. 3. Sliding contacts--Encyclopedias 4. Literature--Errors

Card 2/2

4

CIA-RDP86-00513R000930320015-8 "APPROVED FOR RELEASE: 06/20/2000

SUV/110-58-11-6/28

NAME OF THE PROPERTY OF THE PR

AUTHOR:

Lobashevskiy, L.V. (Engineer)

TITLE:

A Procedure for Obtaining the Static Volt-ampere Characteristic of a Sliding Brush Contact (Metodika snyatiya staticheskikh volit-ampernykh kharakteristik skol zyashchego shchetochnogo kontakta).

PERIODICAL: Vestnik Elektropromyshlennosti, Nr.11, 1958, pp.26-28,

(USSR)

ABSTRACT:

Although a great deal of work has been done on commutation there is no general theory covering all the phenomena of It is most important commutation in electrical machines. for machine designers to know the value of the contact voltage-drop at various current densities. There are, however, no established procedures for measuring the voltaampere characteristics of brushes, which are required when The methods used in the determining the voltage-drop. brush manufacturers' factories suffer from the defect that the temperature varies at the same time as the current, and the voltage-drop is a function of both.

Card 1/4

CIA-RDP86-00513R000930320015-8" APPROVED FOR RELEASE: 06/20/2000

sov/110 58-11-6/28

A Procedure for Obtaining the Static Volt-ampere Characteristic of a Sliding Brush Contact.

Several investigators have installed heaters on the commutator and brushes when determining volt-ampere characteristics but by this means it is not possible to alter the temperature of the sliding contact whilst the characteristic is being taken. The authors of this article used a special equipment to determine voltampere characteristics after several intervals of time Some of the results are plotted for each current value. The flattest characteristic is obtained in Fig.1. with a time delay of four seconds at each current value. The steepest characteristic is obtained with a time delay of 20 minutes at each current value: with these intervals, the thermal condition of the contact may be considered Intermediate time delays give intermediate steady. It follows that characteristics characteristics. determined by existing procedures are not sufficiently informative. Fig.2 gives volt-ampere characteristics with time delays of 4 secs, 2, 5 & 10 minutes at each current value. All give identical values of contact

Card 2/4

suv/110-58-11-6/28

A Procedure for Obtaining the Static Volt-ampere Characteristic of a Sliding Brush Contact.

voltage-drop for corresponding values of current density. In this case the volt-ampere characteristics coincide, because the sliding-contact temperature was the same throughout, and, therefore, the delay time at each current value did not influence the characteristic. Volt-amper = characteristics taken at constant contact temperature can be used to study the transient voltage-drop as a function of current density only, and when this is done brushesmay be divided into two main groups: one group comprises brushes containing metal, for which the voltagedrop is greater when the current flows from the brush to the slip-ring than when it flows in the opposite direction; the second group comprises graphite brushes, whose voltagedrop behaves conversely. Volt-ampere characteristics of brushes Grade MGS-7 at a constant contact temperature of 125°C and under stated conditions, are seen in Fig. 3. expression is given for the contact voltage-drop, and parameters entering into this equation are plotted in Figs. 4 and 5 for different contact temperatures.

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SOV/110-58-11-6/28

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A Procedure for Obtaining the Static Volt-ampere Characteristic of a Sliding Brush Contact.

concluded that further study of the volt-ampere characteristics of different grades of brushes will make it possible to replace the value of contact voltage-drop given in Standard GOST-2332-43 by voltage-drop values calculated by the given formula using experimental curves of the parameters. There are 5 figures and 1 table.

SUBMITTED: February 18, 1958.

1. Carbon brushes--Electrical factors 2. Carbon brushes--Temperature factors 3. Electric currents--Properties 4. Voltage--Determination

Card 4/4

88169

13,2000 6.9419

5/144/60/000/010/006/010

E073/E535

AUTHORS:

ingineers

TITLE:

On Reducing the Width of Brushes for Low Power

Commutator Motors

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1960, No 10, pp. 78-81

In small commutator motors the brush width is determined purely by mechanical considerations. Use of end face commutators with the brushes running on the flat surface would eliminate some of the difficulties involved in using narrow brushes on conventional cylindrical commutators. To investigate the operation of narrow brushes on commutators of this type, the authors used a 1 kW, 3000 r.p.m. electric motor. Reduction of the brush width was effected by filing the contact face of the brushes. Thereby, the mass of the brushes changed only insignificantly and the pressure on them remained constant at about 100 g. The wider brush covered 1.43 commutator bars, whilst the narrow brush covered only 0.88 bars. The results have shown that by using the narrow brushes the radio noise was reduced by 30% and the sparking also decreased. According Card 1/4

1227年,李建立建设的工作证明

88169

S/144/60/000/010/006/010 E073/E535

On Reducing the Width of Brushes for Low Power Commutator Motors to N. P. Yermolin (Ref.12) use of such end face type commutators and narrow brushes is very promising for high r.p.m. machines. For investigating the potentialities of such a machine the NII Branch produced a 1 kW, 15000 r.p.m. machine. The machine was first fitted with an armature with a cylindrical commutator; in this case the degree of sparking was "2 balls". Following that, it was fitted with an armature with an end face type commutator. The radio noise was measured that was generated with wide and with narrow brushes. The results are given in Table 1. Attention is drawn to the fact that in the case of using narrow brushes the The following excitation ampere turns decreased by about 10%. conclusions are arrived at: 1. Use of narrow brushes on end face type commutators in small machines improves the commutation owing to better utilization of the mass of the brushes and narrowing of the commutation zone. 2. Reduction of the pressure when operating with narrow brushes on end face type commutators reduces the friction losses and reduces the wear of the brushes and of the commutator. 3. In the case of a steep front increase of the inductance in the Card 2/4

88169

S/144/60/000/010/006/010 E073/E535

On Reducing the Width of Brushes for Low Power Commutator Motors commutation zone, a narrow brush can be placed more accurately into the neutral zone.

- 4. Narrowing of the commutation zone permits reducing the dimensions of the additional poles.
- 5. Application of narrow brushes on end face type commutators leads
- to a reduction in the generated radio noise.
- 6. A more efficient utilization of the active conductors of the armature winding in the case of using narrow brushes enables reducing the excitation ampere turns, which is particularly important in small motors.
- 7. In using narrow brushes the dimensions of the current collecting system can be considerably reduced.
- 8. Narrow brushes enable reducing the reaction caused by the commutating currents.

There are 1 table and 12 Soviet references.

ASSOCIATION: Tomskiy filial nauchno-issledovatel'skogo instituta

(Tomsk Branch of the Scientific Research Institute)

SUBMITTED: October 30, 1959

Card 3/4

88169

S/144/60/000/010/006/010 E073/E535

On Reducing the Width of Brushes for Low Power Commutator Motors

Table 1

Number of Commutator Bars Covered by the Brush	Brush polarity	Radio noise,μV, Mc/s			frequency	Sparking in "balls" according
		0.16	0.25	0.35	20	to POCT (GOST)
2.4	+	2400	2500	950	200	- 2
•	_	2700	.3000	1200	1400	
1.6	•	1800	2400	800	45	$1\frac{1}{2}$
		2000	2000	750	30	
0.86	+	1200	1400	500	45	11/4
Card 4/4	-	1300	1700	700	30	

LOBASHEVSKIY, LEV VASIL'YEVICH, inzh.; TUKTAYEV, IGOR' IZMAYLOVICH, inzh.;

DFMIN, GENNADIY YAKOVLEVICH, starshiy tekhnik

Selection of specific pressures on the brushes of collectortype machinery. Izv. vys. ucheb. zav.; elektromekh. 4 no.7:87-92

'61. (Electric machinery)
(Brushes, Electric)

TUKTAYEV, Igor Izmaylov	nzh.; IOBASHEVSKIY, Iev Vasil'yevich, inzh.; cich, Inzh.
Universal device for rec	cording the volt-ampere characteristics of vys. ucheb. zav.; elektromekh. 4 (MIRA 14:7)
l. Filial nauchno-issle	edovatel skogo instituta Tomskogo
(Brush	es, Electric) cronic neasurements)

KARASEV, M.F., doktor tekhn.nauk, prof.; LOBASHEVSKIY, L.V., kand.tekhn.nauk

Use of brush compounds in low-power electric machinery. Trudy

OMIIT 40:79-97 *63.

(MIRA 18:8)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930320015-8"

5/865/62/002/000/025/042 D405/D301

AUTHORS:

Kotovskaya, A.R., Lobashkov, S.I., Simpura, S.F., Suvorov, P.M. and Khlebnikov, G.F.

TITLE:

Effect of prolonged transverse accelerations on

human organism

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Problemy kosmicheskov biologii. v. 2. Ed. by N. Sisa-

kyan and V. Yazdovskiy, Moscow, Izd-vo AN SSSR, 1962,

238-245

The investigation had the following main objects: to study the effect of prolonged transverse accelerations on the principal physiological functions of the organism; to determine the limits of endurance of acceleration; the selection of the optimal position of the human body during acceleration; the development of methods of training and selection for astronauts. Experimental method: A group of specially selected healthy persons aged 25-30 was subjected to centifuge tests. The response to accelerations of 7, 9, 10 and 12 g was investigated. The indicators of the following Card 1/3

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basic physiological functions were recorded: electrocardiograms; arterial pressure; pulse and respiration rate; lung ventilation and gas exchange; electroencephalograms; electromyograms of thorax and peritoneal muscles; the duration of the latent period of motor response to light signals; the penetrability of cutaneous capillaries. Results: The subjects could sustain accelerations of 7-12 g for a period of 3 minutes to 30 seconds respectively. The external respiration underwent marked changes; the subjects experienced dif-ficulties in breathing. The number of cardial contractions increased. The arterial pressure also increased. Some regular changes in the bioelectric activity of the brain were noted; these changes can be divided into 3 main stages. The latent period of response to light signals increased to 0.8-0.9 seconds. The acuity of sight decreased in the majority of subjects by 20-30%. The bioelectric activity of in the majority of subjects by 20-30%. the investigated muscles increased. All these physiological changes reverted to normal 3-5 minutes after the acceleration ceased. An analysis of the obtained material showed that the changes in the physiological functions are within tolerable limits, being determined by the magnitude and duration of the overload. Gutaneous hemorrhages Card 2/3

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were observed in most of the subjects after the acceleration ceased. The optimal position of the body was found to be a 10° inclination of the back of the chair with respect to the horizontal. The experiments made it possible to divide the subjects into 3 groups with regard to endurance: those with high endurance, satisfactory endurance, and low endurance. The obtained results were used in developing a special training program for the astronauts Yu. A. Gagarin and G.S. Titov. There are 2 figures and 4 tables.

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